Notice of Allowability	Application No.	Applicant(s)	
	10/735,088	NAGARAJ ET AL.	
	Examiner	Art Unit	
	Apu M. Mofiz	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *09/25/2006*.

2. ☒ The allowed claim(s) is/are *1,2,4,6-8,10,11,14,15,18,21,24,27 and 28*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *hereto* .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Apu Mofiz
Primary Examiner
TC 2100

DETAILED ACTION

EXAMINER'S AMENDMENT

1. Authorization for Examiner's Amendment was given by Noel Kivlin in a telephone interview on 11-07-06.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. The application has been amended as follows:

1. (Currently Amended) A method for pre-allocating space for a file in a cluster file system, comprising:

receiving a request message from a client, wherein the request message includes information to create the file;

creating the file in the cluster file system in response to the information;

allocating space in a storage to the file in response to the information, wherein said creating the file and said allocating space are performed ~~in~~ as an atomic transaction;

sending a response message to the client, wherein the response message includes information indicative of the space in the storage; and

~~further comprising~~ de-allocating the space in response to an amount of time transpiring after said allocating.

2. (Original) The method of claim 1, further comprising setting a predetermined amount of space to be allocated in response to the information.

3. (Canceled)

4. (Currently Amended) A system, comprising:

a network;

one or more servers coupled to the network;

one or more clients coupled to the network;

a storage coupled to each of the one or more servers; and

a cluster file system including program instructions executable to:

receive a request message from a client of the one or more clients ~~send a request message~~, wherein the request message includes information to create a file;

create the file in the cluster file system in response to the information;

allocate space in a storage to the file in response to the information, wherein said instructions executable to create the file and allocate space are executed as an atomic transaction; ~~and~~

~~the server~~ send[[ing]] a response message to the client, wherein the response message includes information about the space in the storage; and

de-allocate the space in response to an amount of time transpiring after said allocating.

5. (Canceled)

6. (Previously Presented) The system as recited in claim [[5]] 4, further including instructions executable to set the amount of time.

7. (Currently Amended) A carrier medium comprising program instructions for pre-allocating space for a file in a cluster file system, wherein the program instructions are computer-executable to ~~implement~~:

~~receiving~~ receive a request message from a client, wherein the request message includes information to create the file;

~~creating~~ create the file in the cluster file system in response to the information;

~~allocating~~ allocate space in a storage to the file in response to the information, wherein said program instructions executable to ~~creating~~ create the file and ~~said allocating~~ allocate space are ~~performed~~ executed as ~~in~~ an atomic transaction; ~~and~~

~~sending~~ send a response message to the client, wherein the response message includes information indicative of the space in the storage; and

de-allocate the space in response to an amount of time transpiring after said allocating.

8. (Currently Amended) The carrier medium of claim 7, wherein the program instructions are computer-executable to ~~implement~~:

set[[ting]] a predetermined amount of space to be allocated in response to the information.

9. (Canceled)

10. (Currently Amended) A server system for pre-allocating space for a file in a cluster file system, the system comprising:

a CPU;

a storage coupled to the CPU; and

a memory coupled to the CPU, wherein the memory stores program instructions which are executable by the server CPU to:

receive a request message, wherein the request message includes information to create the file;

create the file in the cluster file system in response to the information;

allocate space in the storage to the file in response to the information, wherein said instructions executable to create the file and allocate space are executed as an atomic transaction; ~~and~~

send a response message, wherein the response message includes information about the space in the storage; and

de-allocate the space in response to an amount of time transpiring after said allocating.

11. (Original) The system of claim 10, wherein the program instructions are further executable by the server CPU to:

set a predetermined amount of space to be allocated in response to the information.

12. (Canceled)

13. (Canceled)

14. (Currently Amended) A method for operating a file system, comprising:

the file system receiving a command to open a file, wherein a space has been allocated to the file prior to said receiving, wherein the command to open the file includes information instructing the file system to de-allocate the space, wherein the file system is configured to conditionally perform:

in the event a request to store data in the file is received, storing said data in the space allocated to the file; or

in the event said request is not received prior to a predetermined amount of time transpiring, de-allocating said space;

wherein the file system is a cluster file system.

15. (Original) The method of claim 14, further comprising setting the predetermined amount of time.

16. (Canceled)

17. (Canceled)

18. (Currently Amended) A system, comprising:

a computer;

a file system including program instructions executable to ~~implement a method including~~:

~~the file system receiving~~ receive a command to open a file, wherein a space has been allocated to the file prior to said receiving, wherein the command to open the file includes information instructing the file system to de-allocate the space, wherein the file system is configured to conditionally perform:

in the event a request to store data in the file is received, storing said data in the space allocated to the file; or

in the event said request is not received prior to a predetermined amount of time transpiring, de-allocating said space;

wherein the file system is a cluster file system.

19. (Canceled)

20. (Canceled)

21. (Currently Amended) A carrier medium comprising program instructions for operating a file system, wherein the program instructions are computer-executable to ~~implement~~:

enable the file system ~~receiving~~ to receive a command to open a file, wherein a space has been allocated to the file prior to said receiving, wherein the command to open the file includes information instructing the file system to de-allocate the space, wherein the file system is configured to conditionally perform:

in the event a request to store data in the file is received, storing said data in the space allocated to the file; or

in the event said request is not received prior to a predetermined amount of time transpiring, de-allocating said space;

wherein the file system is a cluster file system.

22. (Canceled)

23. (Canceled)

24. (Currently Amended) A system for operating a file system, the system comprising:

a CPU; and

a memory coupled to the CPU, wherein the memory stores program instructions which are executable by the CPU to:

receive a command to open a file, wherein a space has been allocated to the file prior to the command to open the file, wherein the command to open the file includes information instructing the file system to de-allocate the space, wherein the file system is configured to conditionally perform:

in the event a request to store data in the file is received, storing said data in the space allocated to the file; or

in the event said request is not received prior to a predetermined amount of time transpiring, de-allocating said space;

wherein the file system is a cluster file system.

25. (Canceled)

26. (Canceled)

27. (Currently Amended) A method for operating a file system, comprising:

the file system receiving a command to truncate a space allocated to a file, wherein the space has been allocated to the file prior to said receiving, wherein the command to truncate the space allocated to the file includes information instructing the file system to de-allocate the space, wherein the file system is configured to conditionally perform:

in the event a request to store data in the file is received prior to a predetermined amount of time transpiring, storing said data in the space allocated to the file; or

in the event said request is not received prior to the predetermined amount of time transpiring, de-allocating said space;

wherein the file system is a cluster file system.

28. (Original) The method of claim 27, further comprising setting the predetermined amount of time.

29. (Canceled)

30. (Canceled)

Points of Contact

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Apu M. Mofiz whose telephone number is (571) 272-4080. The examiner can normally be reached on Monday – Thursday 8:00 A.M. to 4:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached at (571) 272-4146. The fax numbers for the group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Apu M. Mofiz
Primary Patent Examiner
Technology Center 2100

November 10,2006